

# PROCEEDINGS OF THE JAPAN ACADEMY

---

## SERIES A MATHEMATICAL SCIENCES

---

### CONTENTS

**Papers Communicated:—**

	Page
Y.-G. CHEN and T. SUZUKI: Single-point Blow-up for Semilinear Parabolic Equations in Some Non-radial Domains . . . . .	57
N. TODA: On Algebroid Solutions of Some Binomial Differential Equations in the Complex Plane . . . . .	61
H. SOGA: On the Representation of the Scattering Kernel for the Elastic Wave Equation . . . . .	65
M. TAKEDA: Tightness Property for Symmetric Diffusion Processes . .	68
S. TAJIMA: Local Cohomology and the Absence of Poincaré Lemma in Tangential Cauchy-Riemann Complexes . . . . .	71
T. ISHII: On Propagation of Regular Singularities for Solutions of Nonlinear Partial Differential Equations. I . . . . .	74
T. ONO: A Problem on Quadratic Fields . . . . .	78
P. D. PROINOV and N. A. MITREVA: On Some Inequalities in the Theory of Uniform Distribution. I . . . . .	80
H. ISHIKAWA: A Table of the Dimensions of the Hilbert Modular Type Cusp Forms over Real Quadratic Fields . . . . .	84
T. FUJITA: Notes on Quasi-polarized Varieties . . . . .	88
Proceedings at the 817th General Meeting . . . . .	v

# THE JAPAN ACADEMY

(THE IMPERIAL ACADEMY OF JAPAN TILL DEC., 1947)

---

ACTING PRESIDENT: Yoshitaro WAKIMURA  
SECRETARY-GENERAL: Yoshitaro WAKIMURA  
CHAIRMAN OF SECTION I: Yoshitake OKA  
CHAIRMAN OF SECTION II: Yoshio FUJITA

## PUBLICATION COMMITTEE

CHAIRMAN: THE SECRETARY-GENERAL

Setsuro EBASHI ( <i>Pharmacology and Biophysics</i> )	Tsunahiro KIKUI ( <i>Law of Civil Procedure</i> )
Yoshio FUJITA ( <i>Astronomy</i> )	Motoo KIMURA ( <i>Genetics</i> )
Shinji FUKUI ( <i>Mechanical Engineering</i> )	Fumio NAKAJIMA ( <i>English Linguistics</i> )
Naohide HIRATSUKA ( <i>Plant Pathology and Mycology</i> )	Takao TSUCHIYA ( <i>Economic History of Japan</i> )
Teiji ICHIKO ( <i>Japanese Literature</i> )	Yuzo YAMADA ( <i>Economics</i> )
Yasuji KATSUKI ( <i>Physiology</i> )	Kisaburo YOKOTA ( <i>Public International Law</i> )
Masaakira KATSUMOTO ( <i>Civil Law and Copyright Law</i> )	Kôsaku YOSIDA ( <i>Mathematics</i> )

---

## NOTES

The papers printed in the Proceedings are generally résumés, while the publication of the full texts is left to the respective authors' choice.

---

All communications relating to the Proceedings should be addressed to the Secretary-General at the Office of the Academy, Ueno Park, Tokyo, 110.

Those who desire for particular articles may apply for their reprints to the respective authors.

---

Agents: Maruzen Co. Ltd., 3-10, Nihonbashi 2 Chome, Chuo-ku, Tokyo, 103